

# INTERNATIONAL SEARCH REPORT

ational Application No  
/JP2004/019292

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>	H01M8/10	H01M4/86	H01M4/88	H01M4/92	H01M4/94
	H01M8/02				

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
H01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 759 712 A (HOCKADAY ET AL) 2 June 1998 (1998-06-02) the whole document -----	1-14
A	US 2002/048703 A1 (OHLSEN LEROY J ET AL) 25 April 2002 (2002-04-25) paragraphs '0057!, '0058! -----	1-14
A	US 4 329 157 A (DOBO ET AL) 11 May 1982 (1982-05-11) the whole document -----	1-14
A	EP 1 300 188 A (TOYOTA JIDOSHA KABUSHIKI KAISHA) 9 April 2003 (2003-04-09) the whole document ----- ----- -/-	1-14

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
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17 February 2006

28/02/2006

Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer
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Reich, C

**INTERNATIONAL SEARCH REPORT**ational Application No  
**/JP2004/019292****C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/086994 A (NEAH POWER SYSTEMS, INC; OHLSEN, LEROY, J; COOKE, AARON, M; MALLARI, J) 31 October 2002 (2002-10-31) page 12, lines 8-30 -----	1-14
A	US 5 094 927 A (BAUCKE ET AL) 10 March 1992 (1992-03-10) the whole document -----	1-14

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

National Application No

/JP2004/019292

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5759712	A	02-06-1998	AU BR CA EP IL JP WO	6048698 A 9806274 A 2277133 A1 1025601 A1 130792 A 2001508919 T 9831062 A1		03-08-1998 29-02-2000 16-07-1998 09-08-2000 01-12-2002 03-07-2001 16-07-1998
US 2002048703	A1	25-04-2002	US US US US	6641948 B1 2003044674 A1 2002041991 A1 2002028372 A1		04-11-2003 06-03-2003 11-04-2002 07-03-2002
US 4329157	A	11-05-1982		NONE		
EP 1300188	A	09-04-2003	JP US	2003112020 A 2003061937 A1		15-04-2003 03-04-2003
WO 02086994	A	31-10-2002	CA EP JP	2444688 A1 1390996 A1 2004527086 T		31-10-2002 25-02-2004 02-09-2004
US 5094927	A	10-03-1992	DE EP	3929730 A1 0417464 A1		21-03-1991 20-03-1991